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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Patent Application of:

Tomofumi Arakawa

Application No.: 10/060,226

Group Art Unit: 2818

Filed: February 1, 2002

Examiner: Huan Hoang

For: MEMORY DEVICE

COMMISSIONER FOR PATENTS
Washington, D.C. 20231

Sir:

Transmitted herewith is an amendment in the above-identified application.

☒ No additional fee is required.

The fee has been calculated as shown below

The fee has been calculated as shown below

CLAIMS AS AMENDED						
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE
TOTAL CLAIMS	13	MINUS	20	=0	x \$9 \$18	\$0.00
INDEP. CLAIMS	2	MINUS	3	=0	x\$42 \$84	\$0.00
Fee for Multiple Dependent Claims \$130/\$260						
			TOTAL ADDITIONAL FEE FOR THIS AMEND-MENT		\$0.00	

- If the entry in Column 2 is less than the entry in Column 4,
- write "0" in Column 5.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.

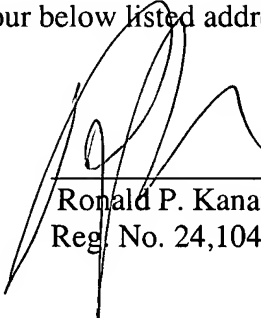
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- ☐ A Letter to the Official Draftsperson is enclosed.
- ☐ A Change of Address is enclosed.
- ☐ Charge \$ _ to Deposit Account No. 18-0013. A duplicate copy of this sheet is enclosed.
- ☒ Any prior general authorization to charge an issue fee under 37 C.F.R. 1.18 to Deposit Account No. 18-0013 is hereby revoked. The Commissioner is hereby authorized to charge any additional fees under 37 CFR 1.16 and 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 18-0013. A duplicate copy of this sheet is enclosed.
- ☐ Charge \$ _ to Deposit Account No. 18-0013 to cover the Extension fee for response within month(s).
- ☒ Applicant's undersigned attorney may be reached by telephone in our Washington D.C. Office at

(202) 955-3750.

All correspondence should be directed to our below listed address.

Date: January 14, 2003



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Tomofumi Arakawa

Application No.: 10/060,226

Group Art Unit: 2818

Filed: February 1, 2002

Examiner: Huan Hoang

For: MEMORY DEVICE

BOX NON-FEE AMENDMENT

Commissioner of Patents
Washington, D.C. 20231

AMENDMENT UNDER 37 C.F.R. § 1.111

Sir:

In response to the non-final Office Action dated October 21, 2002, please amend the above-identified application as follows:

IN THE CLAIMS:

Please rewrite claim 1 as set forth below in clean form. Additionally, in accordance with 37 CFR 1.121(c)(1)(ii), amended claim 1 is set forth in a marked-up version in the pages attached to this Amendment.

1. (Amended) A memory device comprising:

a1
a matrix of a plurality of memory cells, each of which is connected to an intersection of each bit line of a plurality of pairs of bit lines and each word line of a plurality of word lines which intersect the bit lines;

a plurality of sense amplifiers capable of read and write operations independently of one another, which are disconnectedly connected in parallel with the plurality of memory cells connected to the pairs of bit lines through the pairs of bit lines; and

a read gate and a write gate which are connected to each of the plurality of sense amplifiers connected in parallel with the pairs of bit lines,

a